A national laboratory of the U.S. Department of Energy
Office of Energy Efficiency & Renewable Energy

NREL National Renewable Energy Laboratory

Innovation for Our Energy Future

Join us the second Thursday of every month for a series of "brown bag" seminars, sponsored by the National Renewable Energy Laboratory and the U.S. Department of Energy (DOE). Each seminar is held at NREL's Washington office with a videoconference link to Golden, Colorado. Topics focus on new and innovative renewable energy and energy analysis strategies, models, and technologies.

Coal-based Energy Systems - Key Technologies for a Clean Energy Future

An analytical seminar presented by DOE and NREL's Energy Analysis Office (EAO)

James Ekmann, Director of Office of Systems, Analyses, and Planning - National Energy Technology Laboratory (NETL)

James Ekmann

Thursday, March 9, 2006
Noon – 1 p.m. (in Washington, D.C. - bring your lunch)
10 – 11 a.m. (videoconference in Golden, Colo.)

Coal reserves are abundant in the United States and in many areas of the world, making coal an attractive option for new power plants from the standpoint of affordability and supply reliability. Yet coal's considerable energy potential is accompanied by significant challenges related to its effects on the environment and human health. Advanced technologies can be instrumental in enabling tomorrow's coal power plants to meet current and pending regulations while providing the affordable electricity essential to economic vitality. NETL is directly involved in implementing the current program within the Office of Fossil Energy through on-site research; project management of a diverse portfolio of RD&D projects; and through analyses assessing cost, performance, life-cycle emissions, and the impact of proposed regulations on new and existing power plants. In this presentation, James Ekmann will focus on the emerging suite of technology options and on studies that evaluate their potential to contribute to the nation's energy mix. In addition, he will discuss the current RD&D plan and analytical activities that support program evaluation efforts.

James Ekmann is director of the Office of Systems, Analyses, and Planning at the National Energy Technology Laboratory (NETL) of the U.S. Department of Energy (DOE). His office focuses on studies of the benefits of accelerated technology deployment and system analysis of energy technologies. Ekmann is the U.S. coordinator for collaboration on environmental control technologies (Annex IV) under the U.S.-China Protocol between the Office of Fossil Energy within the U.S. Department of Energy (DOE) and the Ministry of Science and Technology of the People's Republic of China. Ekmann represented NETL in the development of two DOE studies dealing with climate change mitigation technologies: *Technology Options to Reduce U.S. Greenhouse Gas Emissions and Carbon Sequestration: State of the Science.*

Golden, Colo., information

1617 Cole Blvd., Golden, Colorado
Building 15, Conference Room 375

Please contact Lynne Fenn at lynne_fenn@nrel.gov or 303-384-7439

Washington, D.C., information

901 D Street SW (also the Aerospace Building, 370 L'Enfant Promenade), adjacent to the Forrestal Building

Please contact Wanda Addison, of Midwest Research Institute (MRI), at wanda_addison@nrel.gov or 202-646-5278

If you are interested in participating in the seminar via conference call, please contact Wanda Addison, of MRI, at **wanda_addison@nrel.gov** or **202-646-5278** for instructions.

EAO Energy Analysis Office
Understanding Energy Issues

For more information on NREL analysis, please visit the Web site at
http://www.nrel.gov/analysis